Team K

SwithS :

Sungkyunkwan University's study integration platform

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00. Recall project purpose

00. Recall project purpose
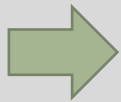
What is the purpose of our project?

Study platform for SKKU students!

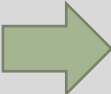# 01. About Past Feedback

:01. About Past Feedback

1) A lack of information between existing platform

	Only For Study Group	Recruiting System	Management System	Only for SKKU student
Hola	O	O	X	X
Everytime	X	O	X	O
KakaoTalk	X	△	O	△
SWithS	O	O	O	O
Naver Cafe	△	X	O	O

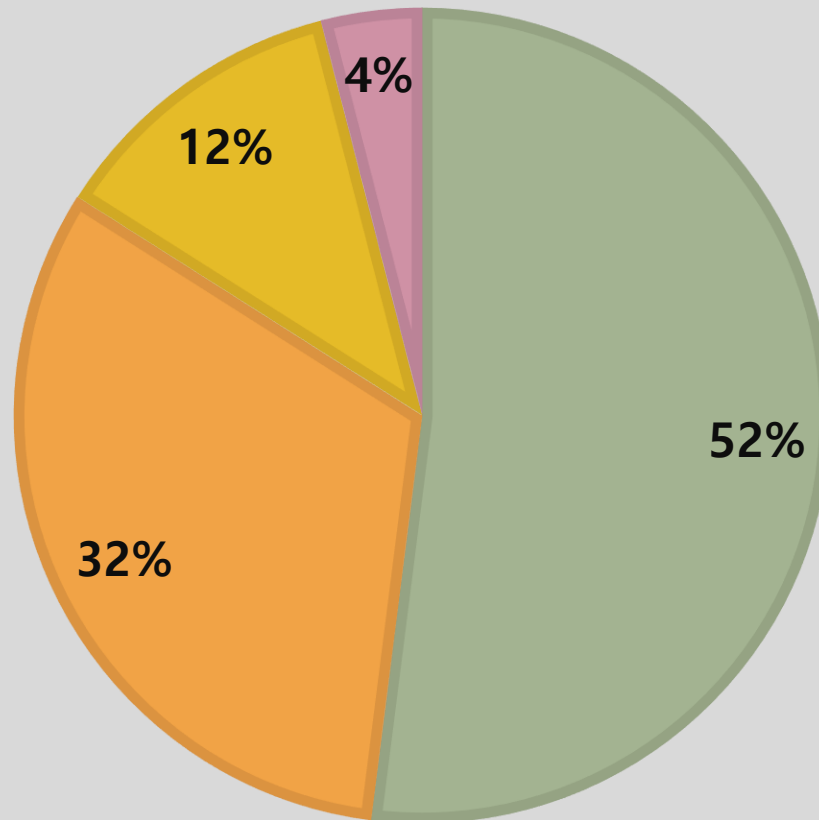## 2) A lack of a strategy for attracting users

➡ **Add new function focusing on study group management and use only by SKKU students!**

02. About New Function

:02. About New Function

DIFFICULTIES IN THE STUDY GROUP

■ Decide time
■ Decide place
■ Conflict with a partner
■ Differences in level with partners

4%

12%

52%

32%

:02. About New Function

Provides information on the **study room of SKKU Library** and the **time when everyone can gather**.

02. About New Function

1) User Register Everytime time table URL

:02. About New Function

2) Crawling the data about everytime timetable

```
<internal value="SWE3003-41"/>
<name value="데이터베이스개론"/>
<professor value="남범석"/>
<time value="화16:30-17:45 【85712】 &lt;br>목15:00-16:15 【85712】 ">
  <data day="1" starttime="198" endtime="213" place="85712"/>
  <data day="3" starttime="180" endtime="195" place="85712"/>
</time>
<place value=""/>
<credit value="3"/>
<closed value="0"/>
</subject>
<subject id="5766084">
  <internal value="SWE3004-41"/>
  <name value="운영체제"/>
  <professor value="엄영익"/>
  <time value="월09:00-10:15 【26312】 &lt;br>수10:30-11:45 【26312】 ">
    <data day="0" starttime="108" endtime="123" place="26312"/>
    <data day="2" starttime="126" endtime="141" place="26312"/>
  </time>
```

3) Crawling the data about study room of SKKU Library

이름	층	수용인원	예약현황		예약
스터디룸 3-1	3층	4 ~ 6			예약하기
스터디룸 3-2	3층	10 ~ 16			예약하기

```
"name": "스터디룸 4-3",
"isCheckHoliday": true,
"isActive": true,
"isReservable": false,
"branchGroup": {
    "id": 2,
    "name": "자연과학캠퍼스"
},
"building": {
    "id": 3,
    "name": "삼성학술정보관"
},
"floor": 4,
"reservationTimeUnit": "MI"
},
"beginTime": "2023-10-26 19:00:00",
"endTime": "2023-10-26 21:30:00",
"roomUseSection": {
    "id": 2,
    "code": "MEETING",
    "name": "회의"
},
"roomReservationState": {
    "id": 2,
    "code": "APPROVAL",
    "name": "예약됨"
}
```
```
"name": "스터디룸 4-3",
"isCheckHoliday": true,
"isActive": true,
"isReservable": false,
"branchGroup": {
    "id": 2,
    "name": "자연과학캠퍼스"
},
"building": {
    "id": 3,
    "name": "삼성학술정보관"
},
"floor": 4,
"reservationTimeUnit": "MI"
},
"beginTime": "2023-10-26 16:30:00",
"endTime": "2023-10-26 19:00:00",
"roomUseSection": {
    "id": 1,
    "code": "STUDY",
    "name": "학습"
},
"roomReservationState": {
    "id": 5,
    "code": "IN_USE",
    "name": "사용중"
}
},
```
```
"name": "스터디룸 4-3",
"isCheckHoliday": true,
"isActive": true,
"isReservable": false,
"branchGroup": {
    "id": 2,
    "name": "자연과학캠퍼스"
},
"building": {
    "id": 3,
    "name": "삼성학술정보관"
},
"floor": 4,
"reservationTimeUnit": "MI"
},
"beginTime": "2023-10-26 13:00:00",
"endTime": "2023-10-26 13:56:16",
"roomUseSection": {
    "id": 1,
    "code": "STUDY",
    "name": "학습"
},
```

02. About New Function

4) Provide information about time and study room of SKKU Library

5) Provide a vote for a group of candidates

03. Progress - Frontend

:03. Progress - Frontend

Page design

- Upload timetable

03. Progress - Frontend

Page design

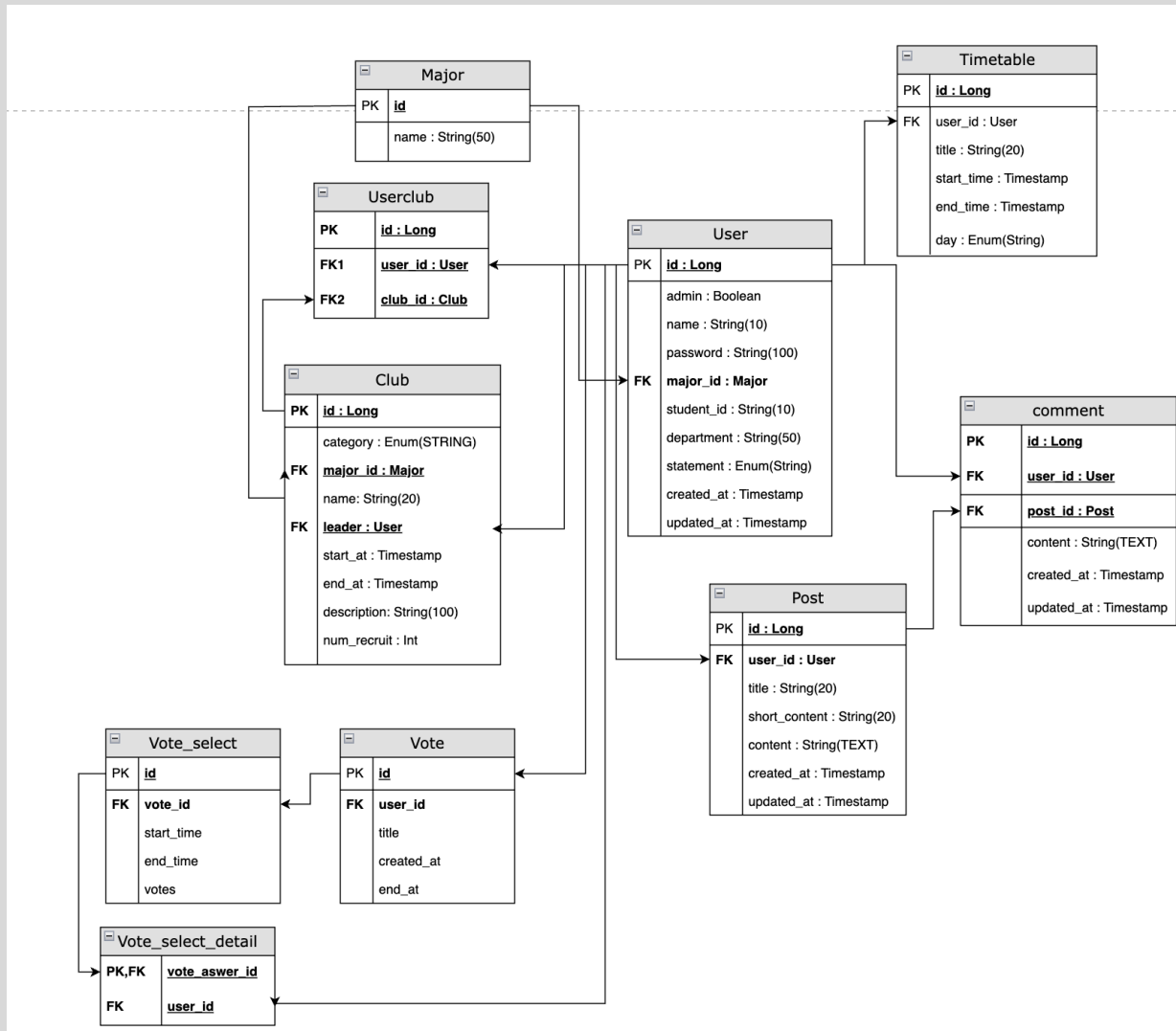- Upload timetable

03. Progress - Frontend

- Logo Design

04. Progress - Backend

04. Progress – Backend

1) DB design

:04. Progress - Backend

2) Implement Data Schema

```
mysql> show tables;
+--------------------+
| Tables_in_swiths_db |
+----------          mysql> describe user;
| club               +------------+-------------+------+------+---------+----------------+
| comment            | Field      | Type        | Null | Key  | Default | Extra          |
| major              +------------+-------------+------+------+---------+----------------+
| post               | admin      | bit(1)      | NO   |      | NULL    |                |
| timetable          | statement  | varchar(1)  | YES  |      | NULL    |                |
| user               | created_at | datetime(6) | YES  |      | NULL    |                |
| user_club          | id         | bigint      | NO   | PRI  | NULL    | auto_increment |
+----------          | major_id   | bigint      | YES  | UNI  | NULL    |                |
                     | updated_at | da  mysql> describe user_club;
                     | department | va +----------+--------+------+------+---------+--------
                     | password   | va | Field    | Type   | Null | Key  | Default | Extra
                     | student_id | va +----------+--------+------+------+---------+--------
                     | name       | va | club_id  | bigint | NO   | MUL  | NULL    |
                     | email      | va | id       | bigint | NO   | PRI  | NULL    | auto_i
                     +------------+--- | user_id  | bigint | NO   | MUL  | NULL    |
                                       +----------+--------+------+------+---------+--------
```

```java
@Entity
@Getter
@Setter
public class User {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(unique = true, nullable = false)
    private Long id;

    @Column(length = 30, nullable = false)
    private String email; // 유저 이메일

    @Column(nullable = false)
    private Boolean admin; // 유저에게 권한을 줄지말지 정함

    @Column(length = 20, nullable = false)
    private String name; // 유저이름

    @Column(length = 10, nullable = false)
    private String password; // 유저 비밀번호

    @OneToOne
    @JoinColumn(name = "major_id")
    private Major major;

    @Column(name = "student_id", length = 10)
    private String studentId; // 학번

    @Column(length = 10)
    private String department; // 학부

    @Column(length = 1)
    private String statement; // 학적상태

    @CreationTimestamp
    @Column(name = "created_at")
    private LocalDateTime createdAt = LocalDateTime.now();

    @CreationTimestamp
    @Column(name = "updated_at")
    private LocalDateTime updated_at = LocalDateTime.now();

    @OneToMany(mappedBy = "user")
    private List<Post> posts = new ArrayList<>();
}
```

```java
@Entity
@Getter
@Setter
public class UserClub {

    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    @Column(unique = true, nullable = false)
    private Long id;

    @ManyToOne
    @JoinColumn(name = "user_id", nullable = false)
    private User user;

    @ManyToOne
    @JoinColumn(name = "club_id", nullable = false)
    private Club club;

}
```
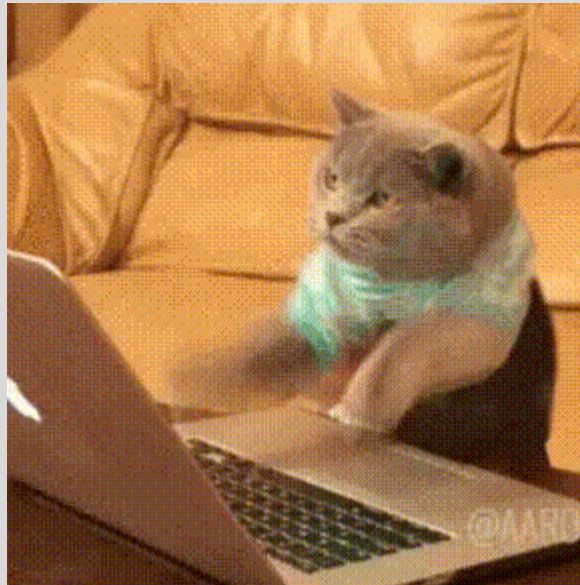
05. Next week

05. Next week

Frontend - start develop

Backend - crawling & API develop

Thank you :)